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ProtectorWax Art.: 319999

### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

### ProtectorWax Art.: 319999

### 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:

Drying agent

#### **Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH Einsteinstrasse 42 59423 Unna

Telefon: +49 (0) 2303 / 9 86 70 - 0 Fax: +49 (0) 2303 / 9 86 70 - 26

info@koch-chemie.com www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

#### Emergency information services / official advisory body:

(RL)

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week) **Telephone number of the company in case of emergencies:** 

+1 872 5888271 (KCC)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement
Acute Tox. 4 Hazard statement
H332-Harmful if inhaled.

Skin Corr. 1B H314-Causes severe skin burns and eye damage.

Eye Dam. 1 H318-Causes serious eye damage.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

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H332-Harmful if inhaled. H314-Causes severe skin burns and eye damage. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection.

P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

#### 2-Butoxyethanol

Acetic acid

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated

#### 2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

n.a.

#### 3.2 Mixtures

2-Butoxyethanol	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119475108-36-XXXX
Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	20-<30
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 3, H331
factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
	ATE (as inhalation, Vapours): 3 mg/l

SILICONE QUATERNIUM-17	

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Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	519142-86-0
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Aquatic Chronic 2, H411
factors	

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane,	
methoxy-terminated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	102782-92-3
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Corr. 1B, H314
factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

2-(2-butoxyethoxy)ethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475104-44-XXXX
Index	603-096-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	203-961-6
CAS	112-34-5
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Irrit. 2, H319
factors	

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-,	
diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates	
(salts)	
Registration number (REACH)	01-2119983493-26-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-685-4
CAS	
content %	3-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
	Aguatic Chronic 3, H412

Acetic acid	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119475328-30-XXXX
Index	607-002-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	200-580-7
CAS	64-19-7
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Skin Corr. 1A, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Corr. 1A, H314: >=90 %
	Skin Corr. 1B, H314: >=25 %
	Skin Irrit. 2, H315: >=10 %
	Eye Irrit. 2, H319: >=10 %

Ethanol	
Registration number (REACH)	01-2119457610-43-XXXX
Index	603-002-00-5

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EINECS, ELINCS, NLP, REACH-IT List-No.	200-578-6
CAS	64-17-5
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 2, H225
factors	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	Eye Irrit. 2, H319: >=50 %

Octamethylcyclotetrasiloxane	PBT-substance
	vPvB-substance
	SVHC-substance
Registration number (REACH)	01-2119529238-36-XXXX
Index	014-018-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	209-136-7
CAS	556-67-2
content %	0,01-<0,1
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Repr. 2, H361f
	Aquatic Chronic 1, H410 (M=10)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Cauterizations not treated lead to wounds difficult to heal.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Corrosive burns on skin as well as mucous membrane possible.

Risk of serious damage to eyes.

Conjunctivitis

Corneal damage.

Danger of blindness.

Inaestion:

pain in the mouth and throat

stomach pain

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Oesophageal perforation

Gastric perforation

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Oxides of sulphur

Toxic gases

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

Flush residue using copious water.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

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#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Handle and open container with care.

There should be an eyewash station and safety shower located near the area of use.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special storage conditions.

Under all circumstances prevent penetration into the soil.

Store in a well ventilated place.

Store cool.

#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries.

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Chemical Name 2-Butoxyethano	l	
WEL-TWA: 25 ppm (123 mg/m3) (WEL), 20 ppm (98 mg/m3) (EU)	WEL-STEL: 50 ppm (246 mg/m3) (WEL, EL	J)
Monitoring procedures: -	Compur - KITA-190 U(C) (548 873)	
	DFG MethNr. 2 (D) (Loesungsmittelgemische 3	3), DFG (E) (Solvent mixtures 3) -
_	2014, 2002 - EU project BC/CEN/ENTR/000/200	
_	NIOSH 1403 (ALCOHOLS IV) - 2003	,
_	NIOSH 2549 (VOLATILE ORGANIC COMPOUN	IDS (SCREENING)) - 1996
_	OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) -	
BMGV: 240 mmol butoxyacetic acid/mol creatinii		
Chemical Name     2-Butoxyethand	I	
OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, EU)	OELV-15min: 50 ppm (246 mg/m3) (OELV-	
	15min, EU)	
Monitoring procedures: -	Compur - KITA-190 U(C) (548 873)	
	DFG MethNr. 2 (D) (Loesungsmittelgemische 3	
-	2014, 2002 - EU project BC/CEN/ENTR/000/200	02-16 card 32-2 (2004)
-	NIOSH 1403 (ALCOHOLS IV) - 2003	
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUN	
-	OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) -	
BLV: 200 mg/g creatinine (Butoxyacetic acid (BA	A) in urine, h) (ACGIH-BEI)  Other informat	tion: Sk, IOELV
Chemical Name 2-Butoxyethano		
OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, UE)	OELV-ST: 50 ppm (246 mg/m3) (OELV-ST,	, UE)
Monitoring procedures: -	Compur - KITA-190 U(C) (548 873)	
	DFG MethNr. 2 (D) (Loesungsmittelgemische 3	
-	2014, 2002 - EU project BC/CEN/ENTR/000/200	02-16 card 32-2 (2004)

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DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) -

2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)
 DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project

- BC/CEN/ENTR/000/2002-16 card 63-2 (2004)

DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU project

BC/CEN/ENTR/000/2002-16 card 63-2 (2004)

BLV: --- Other information: ---

2-Butoxyethanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment, freshwater		PNEC	34,6	mg/kg dw	
	Environment - soil		PNEC	2,8	mg/kg dw	
	Environment - sewage treatment plant		PNEC	463	mg/l	
	Environment - sediment, marine		PNEC	3,46	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	9,1	mg/l	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal feed)		PNEC	20	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	123	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	147	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3	

2-(2-butoxyethoxy)ethanol									
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note			
	Environment - marine		PNEC	0,11	mg/l				

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	Environment - water, sporadic (intermittent) release		PNEC	11	mg/l
	Environment - sediment, freshwater		PNEC	4,4	mg/kg
	Environment - sediment, marine		PNEC	0,44	mg/kg
	Environment - soil		PNEC	0,32	mg/kg
	Environment - sewage treatment plant		PNEC	100	mg/l
	Environment - oral (animal feed)		PNEC	56	mg/kg
	Environment - freshwater		PNEC	1,1	mg/l
Consumer	Human - inhalation	Short term, local effects	DNEL	7,5	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	40,5	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d
Consumer	Human - oral	Long term, systemic effects	DNEL	6,25	mg/kg bw/d
Consumer	Human - inhalation	Long term, local effects	DNEL	5	mg/m3
Workers / employees	Human - oral	Long term, local effects	DNEL	67,5	mg/m3
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, local effects	DNEL	67,5	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg
Workers / employees	Human - inhalation	Short term, local effects	DNEL	101,2	mg/m3
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	67,5	mg/m3

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,017	mg/l	
	Environment - sediment,		PNEC	1,7	mg/kg dw	
	freshwater					
	Environment - marine		PNEC	0,002	mg/l	
	Environment - sediment,		PNEC	0,17	mg/kg dw	
	marine					
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - soil		PNEC	0,331	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic	DNEL	2,17	mg/m3	
		effects				
Consumer	Human - dermal	Long term, systemic	DNEL	56,25	mg/kg	
		effects			bw/d	
Consumer	Human - oral	Long term, systemic	DNEL	1,25	mg/kg	
		effects			bw/d	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	8,72	mg/m3	
		effects				

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Workers / employees	Human - dermal	Long term, systemic	DNEL	112,5	mg/kg	
		effects			bw/d	

Acetic acid						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	3,058	mg/l	
	Environment - marine		PNEC	0,3058	mg/l	
	Environment - periodic release		PNEC	30,58	mg/l	
	Environment - sediment, freshwater		PNEC	11,36	mg/kg dry weight	
	Environment - sediment, marine		PNEC	1,136	mg/kg dry weight	
	Environment - soil		PNEC	0,478	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	85	mg/kg dry weight	
Consumer	Human - inhalation	Short term, local effects	DNEL	25	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	25	mg/kg	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	
	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3	

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Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	1,5	μg/l	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - soil		PNEC	0,54	mg/kg	
	Environment - sediment, freshwater		PNEC	3	mg/kg	
	Environment - marine		PNEC	0,15	µg/l	
	Environment - sediment, marine		PNEC	0,3	mg/kg	
	Environment - oral (animal feed)		PNEC	41	mg/kg feed	
Consumer	Human - oral	Short term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	13	mg/kg	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	73	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	73	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	73	mg/m3	
Workers / employees	rs / employees Human - inhalation		DNEL	73	mg/m3	

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).
- © OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

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(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE).

OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU. (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).  $\mid$ 

BLV = Biological limit value |

Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

- OELV-8h = Occupational Exposure Limit Value 8 h (8-hour reference period as a time-weighted average)
- [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE).

OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period)

- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- [8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |

BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Skin = Possibility of a significant uptake through the skin.

[11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. (S.L.424.24), [12] = The mist is defined as the thoracic fraction. (S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).

(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

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Recommended

Protective gloves made of butyl (EN ISO 374).

Protective nitrile gloves (EN ISO 374). Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

> 0,5

Permeation time (penetration time) in minutes:

> 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Liquid
Colour: Orange
Odour: Charact

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature: Decomposition temperature:

рН:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density: Relative vapour density:

Particle characteristics:

9.2 Other information

No information available at present.

Characteristic
There is no information available on this parameter.

There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter.

There is no information available on this parameter. There is no information available on this parameter.

4,5

There is no information available on this parameter.

Soluble

Does not apply to mixtures.

There is no information available on this parameter.

0,97 g/cm3

There is no information available on this parameter.

Does not apply to liquids.

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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product has not been tested.

#### 10.2 Chemical stability

Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

None known

#### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

#### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

**ProtectorWax** Art.: 319999 Endpoint Toxicity / effect Value Unit Organism Test method Notes Acute toxicity, by oral route: >2000 calculated value ATE mg/kg Acute toxicity, by dermal n.d.a. route: ATE Acute toxicity, by inhalation: 10.3 mg/l/4h calculated value, Vapours ATE 1.7 calculated Acute toxicity, by inhalation: mg/l/4h value, Aerosol Skin corrosion/irritation: n.d.a. Serious eye n.d.a. damage/irritation: Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): n.d.a. Specific target organ toxicity repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a.

Endpoint	Value	Unit	Organism	Test method	Notes
ATE	1200	mg/kg			
LD50	2275	mg/kg	Rabbit	OECD 402 (Acute	
				Dermal Toxicity)	
ATE	3	mg/l			Vapours
	ATE LD50	ATE 1200 LD50 2275	ATE 1200 mg/kg LD50 2275 mg/kg	ATE         1200         mg/kg           LD50         2275         mg/kg         Rabbit	ATE         1200         mg/kg           LD50         2275         mg/kg         Rabbit         OECD 402 (Acute Dermal Toxicity)

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Skin corrosion/irritation:				Rabbit	Regulation (EC) 440/2008 B.4 (DERMAL	Skin Irrit. 2, Product removes fat.
					IRRITATION/CORRO SION)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
Respiratory or skin				Guinea pig	Irritation/Corrosion) OECD 406 (Skin	No (skin
sensitisation:				Guinea pig	Sensitisation)	contact)
Germ cell mutagenicity:				Mouse	OECD 474	Negative
· ·					(Mammalian	
					Erythrocyte	
Come call mantage prints				Colmonalla	Micronucleus Test)	Namativa
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation	Negative
				typillillallalli	Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
Germ cell mutagenicity:					Aberration Test) OECD 476 (In Vitro	Mogativa
Germ cell mutagenicity.					Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 451	Negative
					(Carcinogenicity Studies)	-
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451	Negative
					(Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	720	mg/kg bw/d			
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	<69	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in	acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousnes, annoyance, coughing, headaches, gastrointestina disturbances, insomnia, mucous membrane irritation, dizziness, nausea
Specific target ergen toyicity	NOAEL	>150	malka	Pahhit	Rodents) OECD 411	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	INUAEL	>150	mg/kg bw/d	Rabbit	(Subchronic Dermal Toxicity - 90-day Study)	

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2-(2-butoxyethoxy)ethanol Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	2410	mg/kg	Mouse	OECD 401 (Acute Oral Toxicity)	fasted animals
Acute toxicity, by dermal route:	LD50	2764	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>29	ppm	Rat	OECD 403 (Acute Inhalation Toxicity)	Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative Chinese hamster
Reproductive toxicity:		1000	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Aspiration hazard:					Toxicity Study)	No
Symptoms:						breathing difficulties, respiratory distress, diarrhoea, coughing, mucous membrane irritation, dizziness, watering eyes, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	250	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	< 200	mg/kg bw/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Male
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	14	ppm	Rat	,,	Vapours

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Mouse	OECD 423 (Acute	
					Oral Toxicity - Acute	
					Toxic Class Method)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Dam. 1
damage/irritation:					Eye	
_					Irritation/Corrosion)	
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 414 (Prenatal	Analogous
			bw/d		Developmental	conclusion
					Toxicity Study)	
Symptoms:						gastrointestinal
						disturbances
Specific target organ toxicity -	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated	
repeated exposure (STOT-					Dose 28-Day Oral	
RE), oral:					Toxicity Study in	
					Rodents)	

Acetic acid								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	3310	mg/kg	Rat				
Acute toxicity, by inhalation:	LC50	11,4	mg/l/4h	Rat				
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive, Eye Dam. 1		
Respiratory or skin sensitisation:					,	Not sensitizising		
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative		
Carcinogenicity:					,	Negative		

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Symptoms:		acidosis,
		respiratory
		distress,
		burning of the
		membranes of
		the nose and
		throat,
		diarrhoea,
		disturbed heart
		rhythm, cornea
		opacity,
		cramps,
		circulatory
		collapse,
		stomach
		cramps, shock,
		nausea and
		vomiting.

Ethanol		T		T		1
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451 (Carcinogenicity Studies)	24 mon
Reproductive toxicity:	NOAEL	5200	mg/kg bw/d	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Male

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Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Female
Symptoms:						respiratory distress, drowsiness, unconsciousnes s, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea

Octamethylcyclotetrasiloxane									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	4800	mg/kg	Rat	OECD 401 (Acute				
					Oral Toxicity)				
Acute toxicity, by dermal	LD50	>2375	mg/kg	Rat	OECD 402 (Acute				
route:					Dermal Toxicity)				
Acute toxicity, by inhalation:	LC50	36	mg/l/4h	Rat	OECD 403 (Acute				
					Inhalation Toxicity)				
Skin corrosion/irritation:				Rat	OECD 404 (Acute	Not irritant			
					Dermal				
					Irritation/Corrosion)				
Serious eye				Rabbit	OECD 405 (Acute	Not irritant			
damage/irritation:					Eye				
-					Irritation/Corrosion)				
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising			
sensitisation:					Sensitisation)				
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative			
				typhimurium	Reverse Mutation				
					Test)				
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative			
					Mammalian Cell Gene				
					Mutation Test)				
Carcinogenicity:	NOAEL	150	mg/kg	Rat	OECD 453	inhalation			
					(Combined Chronic				
					Toxicity/Carcinogenicit				
					y Studies)				
Reproductive toxicity:	NOAEL			Rat	OECD 416 (Two-	Repr. 2			
					generation				
					Reproduction Toxicity				
					Study)				
Reproductive toxicity	NOAEL	300	ppm	Rat	OECD 414 (Prenatal				
(Developmental toxicity):					Developmental				
					Toxicity Study)				
Specific target organ toxicity -	NOAEL	960	mg/kg	Rabbit	OECD 410 (Repeated	(21 d)			
repeated exposure (STOT-			bw/d		Dose Dermal Toxicity -				
RE), dermal:					90-Day)				
Specific target organ toxicity -	NOAEC	150	mg/kg	Rat	OECD 453				
repeated exposure (STOT-					(Combined Chronic				
RE), inhalat.:					Toxicity/Carcinogenicit				
					y Studies)				

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ProtectorWax Art.: 319999

#### 11.2. Information on other hazards

ProtectorWax Art.: 319999						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Excessive
						alcohol
						consumption
						during
						pregnancy
						induces the
						foetus alcohol
						syndrome
						(reduced
						weight at birth,
						physical and
						mental
						disorders).,
						There is no
						sign that this
						syndrome is
						also caused by
						dermal or
						inhalative
						absorption.,
						Experiences or
						persons.

#### **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

ProtectorWax							
Art.: 319999							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	_						n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.

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1005	1		1	
12.2. Persistence and				The
degradability:				surfactant(s)
				contained in
				this mixture
				complies(compl
				y) with the
				biodegradability
				criteria as laid
				down in
				Regulation
				(EČ)
				No.648/2004
				on detergents.
				Data to support
				this assertion
				are held at the
				disposal of the
				competent
				authorities of
				the Member
				States and will
				be made
				available to
				them, at their
				direct request
				or at the
				request of a
				detergent
				manufacturer.
12.3. Bioaccumulative				n.d.a.
potential:				
12.4. Mobility in soil:				n.d.a.
12.5. Results of PBT				n.d.a.
and vPvB assessment				
12.6. Endocrine				Does not apply
disrupting properties:				to mixtures.
12.7. Other adverse				No information
effects:				available on
				other adverse
				effects on the
				environment.
Other information:				DOC-
Care information.				
				elimination
				degree(complex
				ing organic
				substance)>=
				80%/28d: n.a.
Other information:	AOX	%		According to
- Caron manorin		,0		the recipe,
1				are recipe,
	1			contains no
				contains no AOX.

2-Butoxyethanol									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus	OECD 203			
_					mykiss	(Fish, Acute			
						Toxicity Test)			
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204			
_						(Fish, Prolonged			
						Toxicity Test -			
						14-Day Study)			

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12.1. Toxicity to	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
•						Àcute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
, , , , , ,					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie	OECD 201	
, , , , ,					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:				'		(Ready	biodegradable
aog.aaay.						Biodegradability -	2.0009.000.0
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:		200		/ 0		(Inherent	biodegradable
aogradasinty.						Biodegradability -	bioaogradabio
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	BCF		3,2			1 001)	Slight
potential:			-,				<b>3</b> ·
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
potential:						(Partition	expected
						Coefficient (n-	•
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/		,	
<u> </u>			16	mol			
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB
							substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	
					putida		

SILICONE QUATERNIUM-17										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	LC50	96h	>10- 100	mg/l	Brachydanio rerio					
12.1. Toxicity to daphnia:	EC50	48h	>10- 100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)				
12.2. Persistence and degradability:							Not readily biodegradable			

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Toxicity to bacteria:	EC50	>1000	mg/l	activated sludge	OECD 209
					(Activated
					Sludge,
					Respiration
					Inhibition Test
					(Carbon and
					Ammonium
					Oxidation))

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1300	mg/l	Lepomis macrochirus	OECD 203 (Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	>=100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	76	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	
12.2. Persistence and degradability:		28d	100	%	activated sludge	OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,9-1			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Slight
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

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Other information:		Does not	
		contain any	
		organically	
		bound	
		halogens wh	nich
		can contribu	
		to the AOX	
		value in was	ste
		water.	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,686	mg/l	Pimephales	U.S. EPA	Analogous
					promelas	ECOTOX	conclusion
						Database	
12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Cyprinus caprio	OECD 203	Analogous
						(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NOEL	21d	1	mg/l	Daphnia magna	U.S. EPA	Analogous
daphnia:						ECOTOX	conclusion
10.1 T 111.1	5050	401		,		Database	
12.1. Toxicity to	EC50	48h	>8,6	mg/l	Daphnia magna	OECD 202	Analogous
daphnia:						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
40.4 Tavisitute aleas	NOEC/NOEL	72h	0.20		Pseudokirchnerie	Test) OECD 201	A == 1= ==
12.1. Toxicity to algae:	NOEC/NOEL	/Zn	0,39	mg/l			Analogous conclusion
					lla subcapitata	(Alga, Growth Inhibition Test)	Conclusion
12.1. Toxicity to algae:	EC50	72h	1,2	mg/l	Pseudokirchnerie	OECD 201	Analogous
12.1. Toxicity to algae.	EC30	1211	1,2	mg/i	lla subcapitata	(Alga, Growth	conclusion
					lia Subcapitata	Inhibition Test)	Conclusion
12.2. Persistence and		28d	>60	%		OECD 301 F	Readily
degradability:		200	700	/0		(Ready	biodegradable
acgradability.						Biodegradability -	bioacgradabic
						Manometric	
						Respirometry	
						Test)	
Toxicity to bacteria:	EC50	6d	100	mg/l	activated sludge	-/	Analogous
•							conclusion

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	75	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	88	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	>300,82	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	24h	47	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>300,82	mg/l	Skeletonema costatum		
12.2. Persistence and degradability:		30d	>99	%			
12.2. Persistence and degradability:		20d	98	%			Readily biodegradable

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12.3. Bioaccumulative potential:	Log Pow		-0,17			
12.3. Bioaccumulative potential:	BCF		<1			Not to be expected
12.5. Results of PBT and vPvB assessment						No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	15min	11	mg/l	Photobacterium phosphoreum	
Toxicity to bacteria:	EC5	16h	2850	mg/l	Pseudomonas putida	
Other information:	BOD5		0,88	g/g		

Ethanol			1				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute	
					mykiss	Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212	
						(Fish, Short-	
						term Toxicity	
						Test on Embryo	
						and Sac-fry	
10 1 T 1 11 1	5050	401				Stages)	
12.1. Toxicity to	EC50	48h	5414	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia	· <b>,</b>	References
daphnia:					spec.		
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201	
						(Alga, Growth	
40.0 Danaiatanaa and		00-1	07	0/	and the standard and a second	Inhibition Test)	D 10
12.2. Persistence and		28d	97	%	activated sludge	OECD 301 B (Ready	Readily
degradability:						Biodegradability -	biodegradable
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		(-0,35) -			,	Bioaccumulation
potential:			(-0,32)				n is unlikely
							(LogPow < 1).
12.3. Bioaccumulative	BCF		0,66 -				
potential:			3,2				
12.4. Mobility in soil:	H (Henry)		0,00013				
12.4. Mobility in soil:	Koc		1,0				Highestimated
12.5. Results of PBT	Roc		1,0				No PBT
and vPvB assessment							substance, No
and VI VD accoomment							vPvB
							substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209	Analogous
						(Activated	conclusion
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

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Other organisms:	NOEC/NOEL	280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)
Other information:	COD	1,9	g/g		
Other information:	BOD5	1	g/g		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 22	μg/l	Oncorhynchus mykiss		EPA OTS 797.1400
12.1. Toxicity to fish:	NOEC/NOEL	>60d	>=0,004 4	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	> 15	μg/l	Daphnia magna		EPA OTS 797.1300
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>0,015	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErC10	96h	0,022	mg/l			
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l			
12.2. Persistence and degradability:		28d	3,7	%	activated sludge	OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test))	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF	28d	12400		Pimephales promelas		EPA OTS 797.1520
12.3. Bioaccumulative potential:	Log Pow		6,98	-			21,7 °C
12.5. Results of PBT and vPvB assessment							PBT- substance, vPvB-substan
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	ISO 8192	

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 08 discarded organic chemicals consisting of or containing hazardous substances

20 01 99 other fractions not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

#### **SECTION 14: Transport information**

#### **General statements**

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Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

14.3. Transport hazard class(es):

8
14.4. Packing group:

14.5. Environmental hazards:

Not applicable

Tunnel restriction code: E
Classification code: C3
LQ: 1 L
Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

14.3. Transport hazard class(es):

8
14.4. Packing group:

14.5. Environmental hazards:

Not applicable

IMDG Code segregation group 1 - Acids

Marine Pollutant:

EmS:

F-A, S-B

Segregation:

SGG1

Transport by air (IATA)

14.1. UN number or ID number: 3265

14.2. UN proper shipping name:

UN 3265 Corrosive liquid, acidic, organic, n.o.s. (AMINO FUNCTIONAL SILOXANE, ACETIC ACID)

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

2-(2-butoxvethoxv)ethanol

Octamethylcyclotetrasiloxane

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): ~ 32,3 %

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.







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#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

2, 3, 8, 11, 12, 14, 15, 16

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

#### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Acute Tox. 4, H332	Classification according to calculation procedure.
Skin Corr. 1B, H314	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H314 Causes severe skin burns and eye damage.

H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

 $\begin{array}{lll} \mbox{Acute Tox.} & -- \mbox{Acute toxicity - inhalation} \\ \mbox{Skin Corr.} & -- \mbox{Skin corrosion} \end{array}$ 

Eye Dam. — Serious eye damage

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation

Flam. Liq. — Flammable liquid

Repr. — Reproductive toxicity

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not available

-GB (RL M)-

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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ProtectorWax Art.: 319999

n.c. not checked n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning

the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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